$MR-1210RII \cdot MR-1210TII/TIII$

SPECIFICATIONS

DISPLAY UNIT	MR-1210RII	MR-12 (4 ft model)	210TII (6.5 ft model)		210TIII (6.5 ft model)	
Display type	12.1-inch TFT color LCD					
Resolution	600×800 dots					
Minimum range	25 m (at 1/8 NM range)					
Maximum range	36 NM	48 NM 72 NM				
Range scales (NM)	1/8, 1/4, 1/2, 3/4, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 32, 36, 48*¹, 64*², 72*² (*¹ MR-1210TⅢ/TⅢ only *² MR-1210TⅢ only)					
Preheat time	90 seconds					
Power supply	10.2–42 V DC					
Power consumption (at zero wind velocity)	60 W (approx.)	70 W (approx.)	80 W (approx.)	80 W (approx.)	90 W (approx.)	
Usable Temp. range	−15°C to +55°C					
Input data format	NMEA 0183, N+1, AUX, IEC61162-2					
Output data format	NMEA 0183					
SCANNER UNIT	MR-1210RII	MR-12	210TII	MR-12	210TⅢ	
Scanner type	2 ft (60 cm) radome scanner	4 ft (120 cm) open array scanner	6.5 ft (200 cm) open array scanner	4 ft (120 cm) open array scanner	6.5 ft (200 cm) open array scanner	
Rotation speed	24, 36 rpm typ.	24, 36 rpm typ. 22, 24, 36 rpm typ.				
Horizontal beamwidth	4° typ.	2° typ.	1.2° typ.	2° typ.	1.2° typ.	
Vertical beamwidth	22° typ.	23° typ.	23° typ.	23° typ.	23° typ.	
Side lobe	–22 dB typ.	–24 dB typ.	–27 dB typ.	–24 dB typ.	–27 dB typ.	
Usable Temp. range	-25°C to +70°C					
Usable humidity range	Less than 95% (at 40°C)					
Frequency	9410 MHz ±30 MHz					
Modulation	PON					
Peak output power	4 kW	4 k	(W	6 kW		
Pulse-width/ repetition rate	80 nS/2160 Hz, 80 nS/1440 Hz, 250 nS/1440 Hz, 350 nS/1440 Hz, 900 nS/720 Hz, 900 nS/660 Hz* (* MR-1210TIII only)					
Modulator	FET switching					
Intermediate frequency	60 MHz					
IF bandwidth	10 MHz, 3 MHz					
Tuning	Auto/manual selectable					
Supplied system cable	15 m; 49.2 ft; OPC-2341 20 m; 65.6 ft; OPC-2342					

All stated specifications are subject to change without notice or obligation

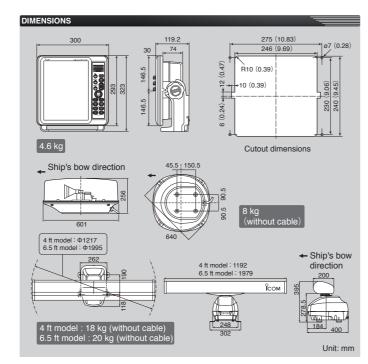
Applicable IP Rating

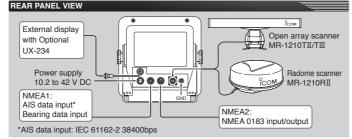
Ingress Protection Standard						
DISPLAY UNIT	IPX4	SCANNER UNIT	IPX6			

OPTIONS









Optional Video Output Unit

With an optional video output unit, UX-234, the MR-1210 can be connected to an external display. Same radar echoes can be observed on the main and secondary displays at the same time.



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BRILL ALM

Color Marine Radar with AIS Overlay Functions

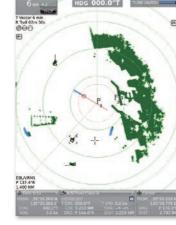


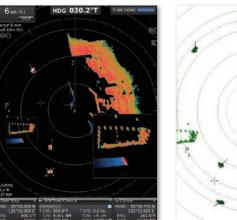
MARINE RADARS

MR-1210RII·MR-1210TII/TII

12.1-inch Color TFT Display (600×800 dots)

The 600 cd/m² color TFT offers bright, vivid echoes with 32 steps gradient intensity. The display intensity and display color (day, night and user settings) can be instantly adjusted with the "BRILL" button. The full screen mode enlarges radar echoes to full size with transparent menus and operating information.





New User Interface

The MR-1210 provides consistent menu structure and the operator can configure various settings via visually intuitive operation. The language setting is selectable from English, Spanish, Vietnamese, Indonesian. Thai and Korean.

(4 ft model / 6.5 ft mode

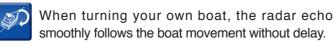


Color setting menu



Scanner monitor menu

Stabilized Head Up Mode*



*External heading sensor (NMEA 0183, N+1 or other formats) required.

TLL(Target Latitude Longitude)Function*」

The MR-1210 can mark points with icons and transfer the position data with NMEA TLL sentences to other NMEA 0183 devices such as an external

*External NMEA 0183 data and heading sensor required.

True Trail Function*

The true trail function cancels own ship movement and shows true moving objects with trails, while static objects are not trailed. The fine trail function allows you to select trail lines from normal, fine or extra

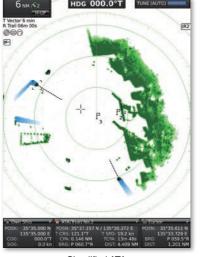
*External NMEA 0183 data and heading sensor required.

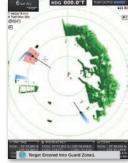
Simplified ATA (Automatic Tracking Aid)*

The simplified ATA function allows you to track up to 10 vessels with symbol icons. The CPA (Closest

Point of Approach) and TCPA (Time to Closest Point of Approach) limits can be calculated and give an audible warning when any of the target vessels comes within the set range or time.

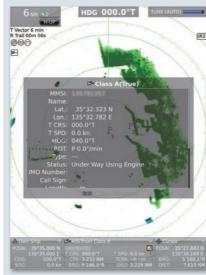
*External NMEA 0183 data and heading sensor required.





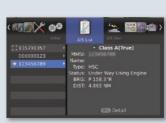
AIS (Automatic Identification System) overlay function*

When connected to an external AIS receiver or AIS transponder, the MR-1210 overlays the received AIS information on the radar echo. You can see up to 100 AIS targets and check detailed information of the individual vessel such as speed, course, heading, vessel type and size.





Own vessel information



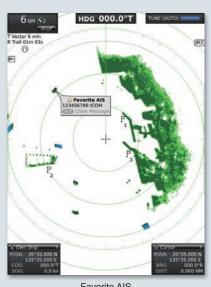
AIS list

Other vessel AIS information

Favorite AIS*

The favorite AIS function notifies you when a "friend boat" comes into a preset range. You can easily follow the movement of the boat position on the radar display. Up to three "friends boats" are programmable.

*External AIS data required.



Favorite AIS